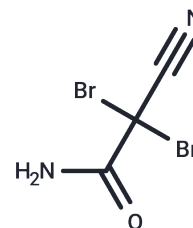


2,2-Dibromo-2-cyanoacetamide

Chemical Properties

CAS No. :	10222-01-2
Formula:	C ₃ H ₂ Br ₂ N ₂ O
Molecular Weight:	241.87
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	2,2-Dibromo-2-cyanoacetamide is a cyanide-containing amide used in organic synthesis and biochemical experiments.
Targets(IC50)	Others
In vitro	The effects of the biocides 2,2-Dibromo-2-cyanoacetamide (DBNPA) and glutaraldehyde on the microbial biodegradation of CW were quantified in batch experiments in which benzoic acid was incubated with realistic CTW biocide concentrations. DBNPA had a stronger negative effect on biodegradation than glutaraldehyde, and the combination of DBNPA and glutaraldehyde had a lower effect on biodegradation than DBNPA alone. [1]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.1345 mL	20.6723 mL	41.3445 mL
5 mM	0.8269 mL	4.1345 mL	8.2689 mL
10 mM	0.4134 mL	2.0672 mL	4.1345 mL
50 mM	0.0827 mL	0.4134 mL	0.8269 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Wagner TV, et al. Non-target screening reveals the mechanisms responsible for the antagonistic inhibiting effect of the biocides DBNPA and glutaraldehyde on benzoic acid biodegradation. J Hazard Mater. 2020 Mar 15;386:121661.

Hwang JH, et al. Skin irritation and inhalation toxicity of biocides evaluated with reconstructed human epidermis and airway models. Food Chem Toxicol. 2021 Apr;150:112064.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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